

2 3 11 7 1 394

10 Nov 2004 PCT/PTO

21 DEC 2004

PHNL 020562W0

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
✓ 15 January 2004 (15.01.2004)

PCT

(10) International Publication Number
WO 2004/005951 A3 ✓

(51) International Patent Classification⁷: G01R 33/385

(21) International Application Number:

✓ PCT/IB2003/002871

(22) International Filing Date: ✓ 13 June 2003 (13.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

✓ 02077687.8

✓ 4 July 2002 (04.07.2002) EP

(71) Applicant (for all designated States except US): KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): ROOZEN, Nicolaas, B. [NL/NL], c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). BILOEN, David [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). OVERWEG, Johannes, A. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agent: WOLFS, Marc, J., M., Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

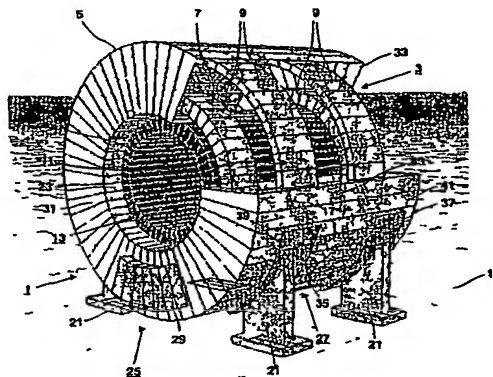
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:

11 March 2004

[Continued on next page]

(54) Title: AN MRI SYSTEM WITH A CONDUCTIVE MEMBER HAVING A DAMPING EFFECT FOR VIBRATIONS



(57) Abstract: The invention relates to a magnetic resonance imaging (MRI) system (1) comprising a damping member (25, 27) which is mounted to a part (5) of the MRI system susceptible to vibrations relative to the magnetic field during operation. Said damping member comprises an electrically conductive member (29, 35, 37) which is present in the magnetic field and in which eddy currents are generated as a result of said vibrations. The conductive member (29, 35, 37) is arranged in a secondary portion of the magnetic field at a distance from the main field portion (17), which secondary portion has a magnetic field strength which differs by more than 25% from the magnetic field strength (B_0) of the main field portion. In this manner, the distance between the conductive member and the main field portion is sufficiently large to prevent the eddy currents in the conductive member from causing unacceptable distortions of the main field portion, while, on the other hand, the magnetic field strength in said secondary portion is still sufficiently large to provide an adequate damping effect of the damping member (25, 27).

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INTERNATIONAL SEARCH REPORT

Internat. Application No
PCT/13/02871

A CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01R33/385

According to International Patent Classification (IPC) or to both national classification and IPC

B FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and where practical search terms used)

EPO-Internal, INSPEC, EMBASE, WPI Data, PAJ

C DOCUMENTS CONSIDERED TO BE RELEVANT

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Date of the actual completion of the international search

4 December 2003

Date of mailing of the international search report

29/12/2003

Name and mailing address of the ISA

European Patent Office P B 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040 Tx 31 651 epo nl
Fax (+31-70) 340-3016

Authorized officer

Lersch, W

INTERNATIONAL SEARCH REPORT

Internat PC	Application No 03/02871
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